and Published before August 2004
Terms used: **fixed width** and **data types**

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1 Compact Encodings of List Structure
Daniel G. Bobrow, Douglas W. Clark
October 1979 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 1 Issue 2
Publisher: ACM Press
Full text available: pdf(1.40 MB) Additional Information: full citation, abstract, references, citings, index terms

List structures provide a general mechanism for representing easily changed structured data, but can introduce inefficiencies in the use of space when fields of uniform size are used to contain pointers to data and to link the structure. Empirically determined regularity can be exploited to provide more space-efficient encodings without losing the flexibility inherent in list structures. The basic scheme is to provide compact pointer fields big enough to accommodate most values that occur i ...

2 Technical reports
SIGACT News Staff
April 1981 **ACM SIGACT News**, Volume 13 Issue 2
Publisher: ACM Press
Full text available: pdf(2.64 MB) Additional Information: full citation

3 Abstraction in Pascal: data and control
Richard E. Pattis
February 1987 **ACM SIGCSE Bulletin , Proceedings of the eighteenth SIGCSE technical symposium on Computer science education SIGCSE '87**, Volume 19 Issue 1
Publisher: ACM Press
Full text available: pdf(1.21 MB) Additional Information: full citation, references, index terms

4 Searching in metric spaces
Edgar Chávez, Gonzalo Navarro, Ricardo Baeza-Yates, José Luis Marroquín
September 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 3
Publisher: ACM Press
Full text available: pdf(916.04 KB) Additional Information: full citation, abstract, references, citings, index terms

The problem of searching the elements of a set that are close to a given query element under some similarity criterion has a vast number of applications in many branches of computer science, from pattern recognition to textual and multimedia information

and Published before August 2004
Terms used: **fixed** and **width** and **data types**

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1 System design methods: analysis and verification: FPGA resource and timing estimation from Matlab execution traces
Per Bjuréus, Mikael Millberg, Axel Jantsch
May 2002 **Proceedings of the tenth international symposium on Hardware/software codesign CODES '02**
Publisher: ACM Press
Full text available: pdf(565.69 KB) Additional Information: full citation, abstract, references, cited by, index terms

We present a simulation-based technique to estimate area and latency of an FPGA implementation of a Matlab specification. During simulation of the Matlab model, a trace is generated that can be used for multiple estimations. For estimation the user provides some design constraints such as the rate and bit width of data streams. In our experience the runtime of the estimator is approximately only 1/10 of the simulation time, which is typically fast enough to generate dozens of estimates within a ...

Keywords: FPGA, Matlab, design exploration, estimation

2 From VHDL to efficient and first-time-right designs: a formal approach
Peter F. A. Middelhoek, Sreeranga P. Rajan
April 1996 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 1 Issue 2
Publisher: ACM Press
Full text available: pdf(722.99 KB) Additional Information: full citation, abstract, references, citings, index terms

In this article we provide a practical transformational approach to the synthesis of correct synchronous digital hardware designs from high-level specifications. We do this while taking into account the complete life cycle of a design from early prototype to full custom implementation. Besides time-to-market, both flexibility with respect to target architecture and efficiency issues are addressed by the methodology. The utilization of user-selected behavior-preserving transformation steps e ...

Keywords: CDFG, SFG, VHDL, correctness by construction, design methodology, rapid system prototyping, transformational design

3 Special Session on Design Paradigms: SystemC: a modeling platform supporting multiple design abstractions
Preeti Ranjan Panda
September 2001 **Proceedings of the 14th international symposium on Systems**

Terms used: **data type analysis** Found **23** of **213,681**

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21 The object-oriented brewery: a comparison of two object-oriented development methods

Robert C. Sharble, Samuel S. Cohen
April 1993 **ACM SIGSOFT Software Engineering Notes**, Volume 18 Issue 2
Publisher: ACM Press
Full text available: pdf(1.61 MB) Additional Information: full citation, abstract, citings, index terms

Interest in object-oriented methods has been rapidly increasing, as software developers and project managers try to reduce escalating development and maintenance costs. There is an increasing need to determine if there are differences in effectiveness between various methods of object-oriented software development, and whether techniques from more successful methods can be extracted and applied to improve other methods.This paper reports on research to compare the effectiveness of two methods fo ...

22 Static evaluation of functional programs

Gary Lindstrom
July 1986 **ACM SIGPLAN Notices , Proceedings of the 1986 SIGPLAN symposium on Compiler construction SIGPLAN '86**, Volume 21 Issue 7
Publisher: ACM Press
Full text available: pdf(922.49 KB) Additional Information: full citation, abstract, references, citings, index terms

Static evaluation underlies essentially all techniques for a priori semantic program manipulation, i.e. those that stop short of fully general execution. Included are such activities as type checking, partial evaluation, and, ultimately, optimized compilation.This paper describes a novel approach to static evaluation of programs in functional languages involving infinite data objects, i.e. those using normal order or "lazy" evaluation. Its principal f ...

23 Business process modeling: modeling and simulation of complex problems: Visual modeling of business problems: workflow and patterns

Lev Virine, Jason McVean
December 2004 **Proceedings of the 36th conference on Winter simulation WSC '04**
Publisher: Winter Simulation Conference
Full text available: pdf(257.38 KB) Additional Information: full citation, abstract, references

Computer-based business analysis relies on models, or algorithmic representations of the business process. Real-life business problems can become very complex, which creates difficulties in generation, analysis, testing, and the actual use of the models. The paper discusses a proposed solution: the visual modeling workflow. A diagram or a group of diagrams represent each step within this workflow. The visual modeling process can be simplified by applying patterns or problem-solution formulas. Su ...